Title: 15625 Receptor, A Novel G-Protein Coupled Receptor

Inventor(s): Glucksmann et al. Application No: Not Assigned

Atty Dkt No: 35800/238853(5800-13B)

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Input file flh15625cons; Output File 15625tr Sequence length 2286

 $\tt CGTCCGTAGCTTTGAGTCCAGTGTTTGAAGACAATCTCTGATTGTGAAGCCCTCTTTTTCTCTCCTTCTATTTCTCTCT$ 

A GAGCACTCAAGACTTTACTGACGAAAACTCAGGAAATCCTCTATCACAAAGAGGTTTGGCAACTAAACTAAGACATTA

MAN	3CHAN	WIW.	CAG	AIGC	LACT	-160	4666	IOCM	J.T.W.	JIAC	IMCI.	INCI	3/3/11/	nuni.	LCAM	accc.	LCCAL	3441(	LAAC	
agi	ratc2	AGGTZ	AACC!	aacai	AGAA											P CCT		n aac	T ACC	14 42
										Q CAG						L CTC	Y TAC			34 102
																F TTT		I ATC	R CGG	54 162
s Agt		s TCA		F TTT						n aac						L CTT		m Atg	I ATT	74 222
																P CCA			T ACT	. 94 282
			_													s agt			F TTC	114 342
	GGA	CTG	ATA	ACT	ATC	GAT	CGC	TAC	CAG		ACC	ACC	AGG	CCA	TTT	AAA				134 402
ccc	AAA	AAT	CTC	TTG	GGG	GCT	AAG	ATT	CTC		GTT	GTC	ATC	TGG	GCA	TTC		TTC		154 462
CTC C	TCT	TTG	CCT	AAC	ATG	ATT	CTG	ACC	AAC		CAG	CCG	AGA	GAC	AAG	N AAT N		AAG	K AAA C	174 522
TGC	TCT	TTC	CTT	AAA	TCA	GAG	TTC	GGT	CTA		TGG	CAT	GAA	ATA	GTA	AAT		ATC	_	194 582 214
	GTC		TTC	TGG	ATT		TTC	TTA		GTT	ATT	GTA		TAT	ACA	CTC R		_		642
GAA N	CTG	TAC	CGG	TCA	TAC	GTA	AGA	ACG	AGG	GGT	GTA	GGT	AAA	GTC	ccc	AGG P	AAA	AAG	GTG F	702 254
AAC A				TTC Y		L L	ATT S			TTC R						CCT	TTC A	CAT E	TTT N	762 274
CCC	CGA	ATT	CCT	TAC	ACC	CTG	AGC	CAA	ACC	CCC	GAT	GTC	TTT	GAC	TGC	ACT	GCT	ĢAA	AAT	822

Coupled Receptor, A Novel C-1101 Coupled Receptor Inventor(s): Glucksmann et al. Application No: Not Assigned Atty Dkt No: 35800/238853(5800-13B)

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T ACT	L CTG	F TTC	-	V GTG		E GAG	S AGC	_	L CTG	W TGG	L TTA	T ACT	s TCC	L TTA	N AAT	A GCA	C TGC	L CTG	D GAT	294 882
P P	F TTC	I ATC	Y TAT	F TTT	F TTC	L CTT	C TGC	K AAG		F TTC		N Aat	S TCC	L TTG	I ATA	S AGT	M ATG	L CTG	K AAG	314 942
С	P	N	s	A	T	s	L	s	Q	D	N	R	к	K	E	Q	Đ	G	G	334
TGC	ccc	AAT	TCT	GCA	ACA	TCT	CTG	TCC	CAG	GAC	AAT	AGG	AAA	AAA	GAA	CAG	GAT	GGT	CCT	1002
D GAC	P CCA	N AAT	E Gaa	E GAG	T ACT	P CCA	M ATG	* TAA												343 1029
ACA	\ATT/	AACTZ	NAGG2	<b>ጓ</b> ልልፐ/	ATTI	YTAAC	CTCT	rigi	FTTC	AGAA	CTCG	TAAT	AGCA	AAGO	CTA:	AGTA	<b>አ</b> ልልል?	TATT	AACT	
GAC	SAAG?	NAGC/	AACT	aagt:	raat?	ATA/	ATGA	TCT	\AAG	AAAC	AGAA	GATT	ACAA	NAGC.	AATT:	rtca:	etta(	CTT	rcca	
GTA:	rgaaj	AAGC:	rate:	rtaa.	AATA:	raga.	AAAC:	YEAS?	TAAL	ACIG	rage	IGTA:	TTAG(	CAGC	AAAA	CAAAC	CGAC	ATCC!	\ATT	
GTC	ATGC	rgca:	rgca	AAAC:	raca	CAGA	ATTC	ATGT	MTG(	CAGA	FTT	rece	AAAA'	igag	YTAAT	CATAC	(TAA')	ATTT2	ACTG	
TAA	TTT	LAAAI	ATACI	ATTA:	rcgt.	rcac:	ARTT	TAT:	riti.	CATA	AATC	AACT	AAGG	AAGA	ACGA:	ICAA7	MGGZ	YTAT!	\ATT	
TCT	racca	<b>LAAA</b>	ATGAT	ragt.	LAAAI	ATGT	XTAT/	YATA	CTA	stecc	CTA	ACCA	AATC	TGA	CTA:	rtgg	ATA(	TTA	ГААА	
AAT.	)AAT1	TAAC	TGG	GATA(	CACA	AAGA2	YTAAT	raac:	TTAT	AACT	rrrc	ATTA:	TTAG(	CAAA	AACC:	PAAG	GAT1	TAAT	CTA	
ATT	)AAA	CTGT	ATTT	CATT	GGAC.	rtaa:	rttt'	TAT	TTT	ATTT	AGAA	GATA	AAGA:	rtta.	AAGA	AGACO	TTT?	\CAA1	AAA	
GAG	AAGA2	AATA!	rcgai	AGTC	ATTA	AAAT	AAGG/	AGAC:	TAC:	TTT	ATGA	CATIV	CTAA!	PACT	AAAA	AATA1	raga;	\ATA1	mc	
CTT	YTTA	CTAG	AGAA2	ACTA	GTTT.	PACT	AATT?	r <b>tt</b> t	ACAA	CTTC	AATA	ATAC	CATC	ACTG	ACAC	TAC	TTT	LATT!	ATTA	
GCT	CTAC	SAAA	ATAGO	CIGC	raat:	PAGG:	TAA!	rgaa(	CATT	rtaco	CTTAC	GTGAZ	AAAA	ATT	AATT	<b>LAAT</b> 2	ATGAT	TAC	NAAG	
TTG	CACAC	3CAT/	VACT2	ACTG	AGAGO	SAAA	TGA	rtga:	rctg:	rtigi	raat:	ract	IGTT:	igta'	MGG:	rgrgi	TATA1	\AAT/	ACAA	

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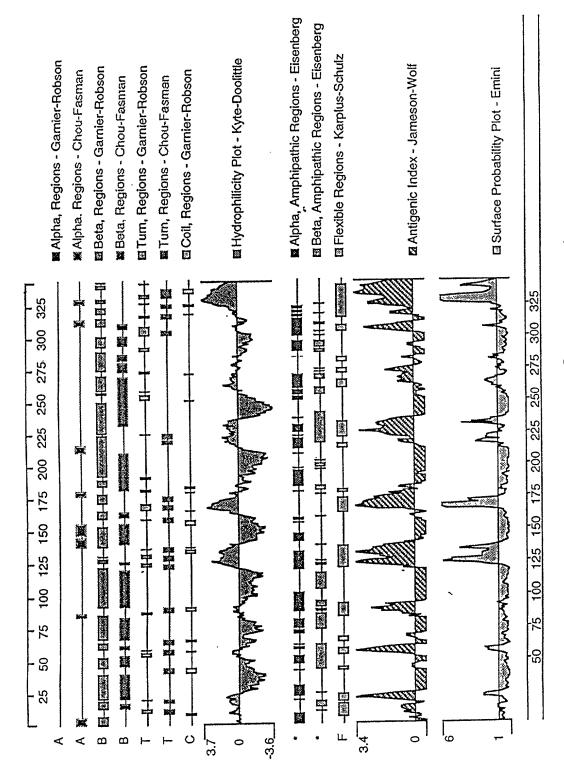
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PF00001 7 transmembrane receptor (rhodopsin family)	
: 184.21 Seq: 42 298 Model: 1 269 *GNiLVIWvIcRyRRMRTPMNYFIVNLAVADLLFslftMPFWMvYyvMqg N+L + ++++ R+ ++ ++F+ N ++DLL+ ++T+PF +++ + G	
25or 42 TNGLAMRIFFQIRS-KSNFIIFLKNTVISDLLM-ILTFPFKILSDAKLG	88
RWpFGdfMCrIwmYFDYMNMYASIFfLTcISIDRYLWAICHPMrYmRWMT + P+ +F+C +++ ++Y++MY SI FL +I+IDRY+ ++P++ + + 25or 89 TGPLRTFVCQVTSVIFYFTMYISISFLGLITIDRYQ-KTTRPFKTSNPKN	137
pRHRAWvMIiiIWvMSFlISMPPFLMFrWstyrDEneWNmTWCmIyDWPe	
+ A+++++IW+++FL+S+P + M+ + T+R ++ N+ C++ E	
	<b>1</b> 81
wMWrWYvILmtiimgFYIPMiIMlFCYwRIYRIaRlWMRMIpswQrRR W +V ++ + F I ++I ++CY++I +++++ ++ +++ +	
25or 182 FGLVWHEIVNYICQ-VIFWINFLIVIVCYTLITKELYRSYVRTRGVGK	228
rmSmRrERRivKMlilIMvVFIICWlPYFIvmfMDTLM.MwwFCefC.Iw ++++ ++II+ VF+IC+ P++ + +TL ++ ++ ++ ++	
25or 229VPRKKVNVKVFIIIAVFFICFVPFHFARIPYTLSQTRDVFDCTAEN	274
rrlWmY.IfeWLaYvNCpCiNPIIY* ++++ ++WL ++N C++P+IY	
25or 275 TLFYVKESTLWLTSLNA-CLDPFIY 298	

Coupled Receptor

15625 Receptor, A Novel G-Protein

Title:



Title: 15625 Receptor, A Novel G-Protein Coupled Receptor

Inventor(s): Glucksmann et al. Application No: Not Assigned

Atty Dkt No: 35800/238853(5800-13B)

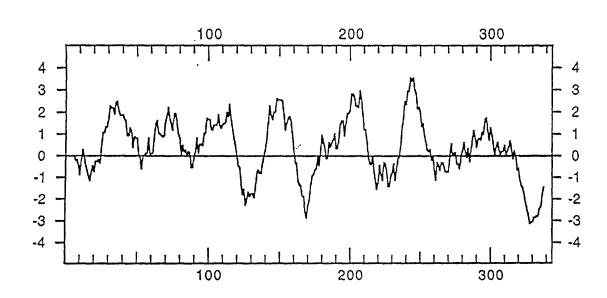
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## 15625orfaa -> KD Hydrophobicity <11/1>

Protein sequence

343 a.a.

MQAVDNLTSAPG ... DGGDPNEETPMZ



Coupled Receptor Inventor(s): Glucksmann et al. Application No: Not Assigned Atty Dkt No: 35800/238853(5800-13B)

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```
N[^*F][ST][^*F]
Query: 6 nlts 9
Query: 13 ntsl 16
>PS00004|PD0C00004|CAMP_PHOSPHO_SITE cAMP- and cGMP-dependent protein kinase phosphorylation site.
[RK](2)[A-Z][ST]
```

>PS00001 PD0C00001 ASN\_GLYCOSYLATION N-glycosylation site.

Query: 173 kkcs 176

>PS00005|PD0C00005|PKC\_PH0SPH0\_SITE Protein kinase C phosphorylation site. [ST][A-Z][RK]

Query: 126ttr128

Query: 163 tnr165

Query: 304sfr306

>PS00008 | PDOC00008 | MYRISTYL N-myristoylation site.

G[^\*EDRKHPFYW] [A-Z] {2} [STAGCN] [^\*P]

Query: 39 glitng 44

Query: 333 ggdpne 338

Coupled Receptor Inventor(s): Glucksmann et al. Application No: Not Assigned

Atty Dkt No: 35800/238853(5800-13B)

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Input file 79a2cons; Output File 79a2tra Sequence length 2272

 ${\tt ACGCGTCCGCAATCTCTGATTGTAAAGCCCTCTTCTTCTTCTTCTTATTAGAACACTCAAGACTTAACTCAGAAACTCAGGAAATTCTCTATCACAAAGAGGTTTGGCAACTAAACTAAGACATTAAAAGGAAAATTACCAGATGCCAC$ 

TCTGCACGTTGCAATAACTACTATTTACTGGATACATTCAAATCCTCCAGAATCAACGGTTATCAGGTAACCAACAAGA

Т S Α P G N Т L 19 N L A ATG CAA GCC ATC GAC AAC CTC ACG TCT GCG CCT GGG AAC ACC AGT CTG TGC ACC AGA 57 T F F T Q V L F P L L Y L 39 GAC TAC AAA ATC ACC CAG GTC CTC TTC CCA CTG CTC TAC ACT GTC CTG TTT TTT GTT GGA 117 F F S L Α М R Ι Q I R K s 59 CTC ATC ACA AAT AGC CTG GCG ATG AGG ATT TTC TTT CAA ATT CGG AGT AAA TCA AAC TTT 177 F Т V I S D L L M I L T P F 79 F  $\mathbf{L}$ K N I Ι ATT ATT TTT CTT AAG AAC ACA GTC ATT TCC GAT CTT CTC ATG ATT CTG ACT TTT CCA TTC 237 L S D A K L G T G P L R Т F V C 99 AAA ATT CTT AGT GAT GCC AAA CTG GGA ACA GGA CCA CTG AGA ACT TTT GTG TGT CAA GTT 297 T Y Ι S I s F L G L I T 119 S V 1 F Y F М Т ACC TCC GTC ATA TTT TAT TTC ACA ATG TAT ATC AGT ATT TCA TTC CTG GGA CTG ATA ACT 357 P F K T S N P K N 139 Ι D R Y Q K Т T R ATC GAT CGC TAC CAG AAG ACC ACC AGG CCA TTT AAA ACA TCC AAC CCC AAA AAT CTC TTG 417 W F М F L L s L P N 159 S V L Ι Α G K Ι L Α GGG GCT AAG ATT CTC TCT GTT CTC ATC TGG GCA TTC ATG TTC TTA CTC TCT TTG CCT AAC 477 P R D K N V K K 179 М  $\mathbf{L}$ Т N R R ATG ATT CTG ACT AAC AGG CGG CCA AGA GAC AAG AAT GTG AAG AAA TGC TCT TTC CTT AAA 537 199 E 1 v N Y 1 С Q V Ι F W F G L W Н TCA GAG TTC GGC CTA GTC TGG CAT GAA ATA GTA AAT TAC ATC TGT CAA GTC ATT TTC TGG 597 219 T S V С Y T L Ι K Е L Y 657 ATT AAT TTC TTA ATT GTC ATT GTA TGT TAC ACA CTC ATT ACA AAA GAA CTG TAC CGG TCA 239 K v N v K v F v R T R G V G K V P R K TAT GTA AGA ACA AGG GGT GTA GGT AAA GTC CCC AGG AAA AAG GTG AAC GTC AAA GTT TTC 717 F R Y 259 Р F Н Α Ι P F Ι С F ATT ATC ATT GCT GTA TTC TTT ATT TGT TTT GTT CCT TTC CAT TTT GCC CGA ATT CCT TAT 777 L-279 С E T F Υ\_ V F D A N S T D Α R ACC CTG AGC CAA ACC CGG GAT GTC TTT GAC TGC GCC GCT GAA AAT ACT CTG TTC TAT GTG 837

Coupled Receptor Inventor(s): Glucksmann et al.

Application No: Not Assigned Atty Dkt No: 35800/238853(5800-13B)

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			_															Y TAT	F TTT	299 897
								_										s TCT	A GCA	319 957
											_	_	_	_	n	D	3.7	E.	E	222
T ACA	S TCT	Q CAG	S TCC	Q CAG	D GAC	N AAT	R AGG	K AAA	K AAA	E GAA	Q CAG	GAT	GGT	GGT	GAC	CCA	AAT	GAA	GAG	339 1017